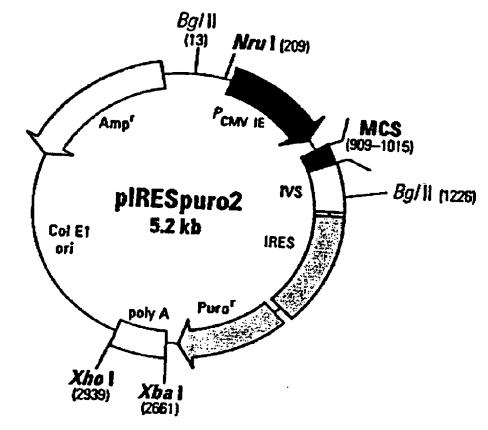
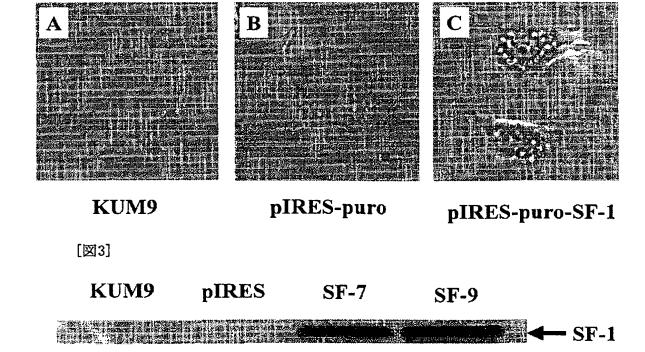
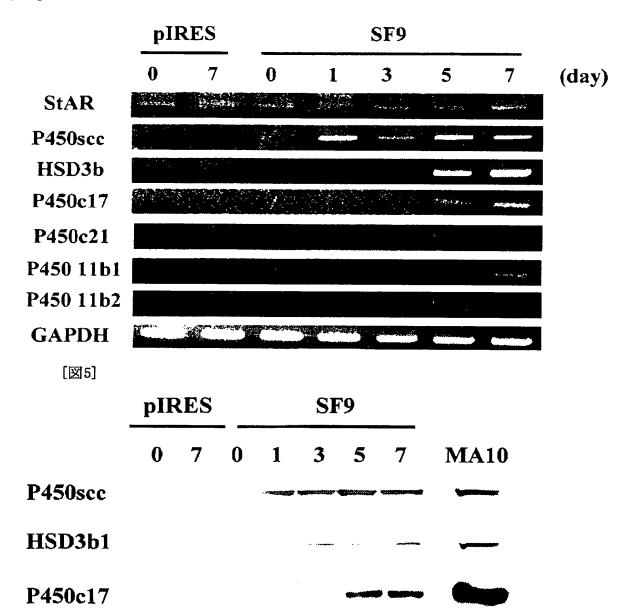
[図1]

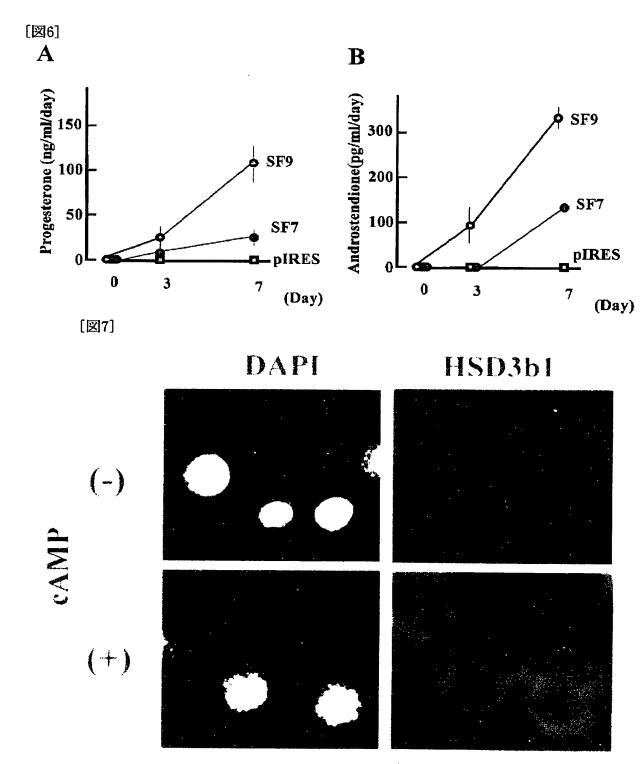


[図2]

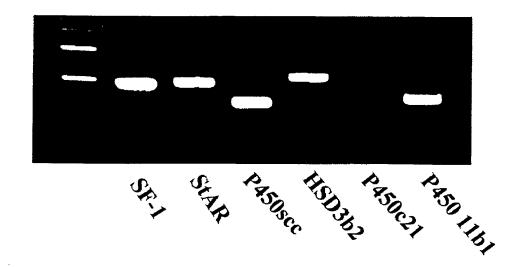


[図4]

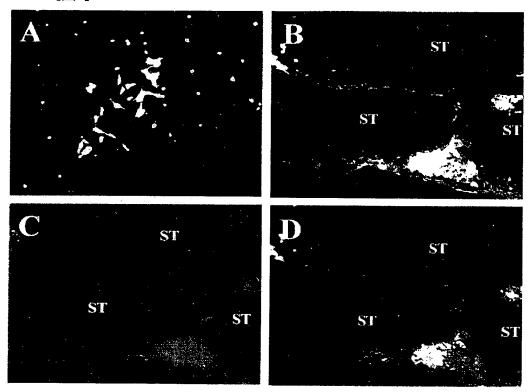




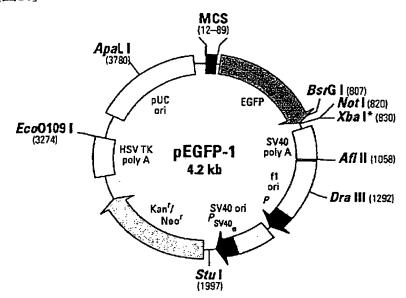
[図8]



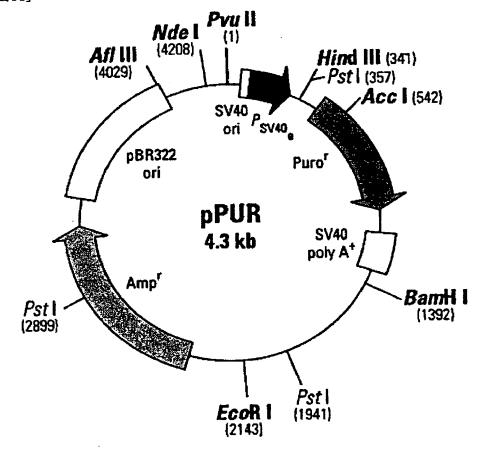
[図9]



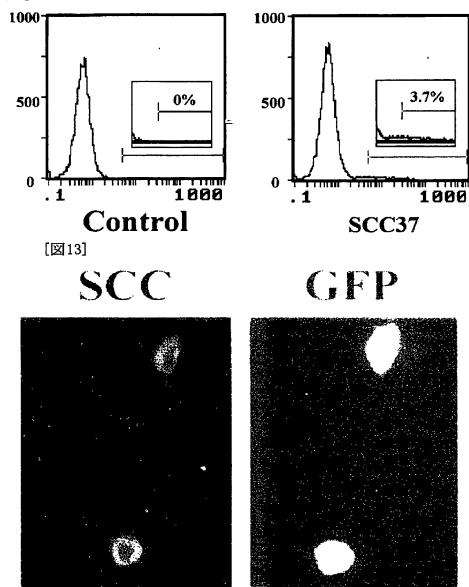
# [図10]



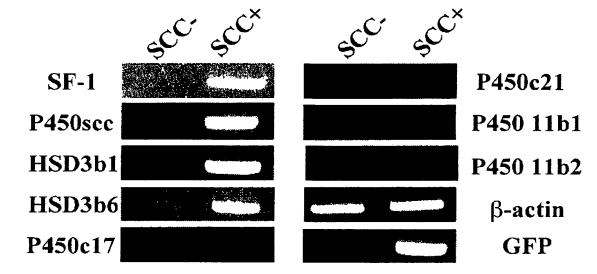
## [図11]







[図14]



## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP2005/002548					
A. CLASSIFIC Int.Cl	CATION OF SUBJECT MATTER C12N5/06, C12N5/08, C12N5/10	, C12N15/09,	C12P33/00,	A01K67/027			
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SE							
Minimum docum	n documentation searched (classification system followed by classification symbols) t.Cl <sup>7</sup> Cl2N5/06, Cl2N5/08, Cl2N5/10, Cl2N15/09, Cl2P33/00, A01K67/027						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) BIOSIS/WPI (DIALOG), MEDLINE (STN), JSTPlus/JST7580 (JOIS)							
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where ap	propriate, of the relev	ant passages	Relevant to claim No.			
Х/Ү	Crawford P.A. et al., Nuclear steroidogenic factor 1 direct stem cells toward the steroid age, Mol.Cell.Biol., 1997, Vo pages 3997 to 4006	s embryonic logenic line		7/1-6,8-10			
Y	Akihiro UMEZAWA, "Tokushu Kansaibo no Hassei 1-6 Bunka to Sono Kasosei Kotsuzui Kanshitsu Saibo", Cellular molecular medicine, 2001, Vol.2, No.1, pages 17 to 24			1-6,8-10			
Y	Hajime OKUSI, "Kan'yokei Kans Saisei Iryo Gijutsu", Bioscei 2002, Vol.30, No. 5, pages 31	ence & Indus		1-6,8-10			
× Further do	cuments are listed in the continuation of Box C.	See patent far	nily annex.				
* Special categories of cited documents:  "T" later document published after the international filing		mational filing date or priority					
"A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international		date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be					
filing date			considered novel or cannot be considered to involve an inventive step when the document is taken alone				
cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is					
	iblished prior to the international filing date but later than the	combined with one or more other such documents, such combination being obvious to a person skilled in the art  "&" document member of the same patent family					
04 Marc	l completion of the international search ch, 2005 (04.03.05)	Date of mailing of the international search report 22 March, 2005 (22.03.05)					
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer					
Facsimile No.		Telephone No.					

## INTERNATIONAL SEARCH REPORT

International application No.

		PCT/JP:	2005/002548	
C (Continuation	). DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.	
Y	Akihiro UMEZAWA, "Saisei Iryo System-Sono Kenkyu to Shinpo-Kan'yokei Kansaibo ni yo 'Zoki' Saikochiku-Atarashii Seitai Micro Device to shiteno Kotsuzui Kanshitsu Saik Kasosei o Mochiita Saibo Ishoku-", Biothe 2001, Vol.15, No.2, pages 119 to 125	oru oo no	1-6,8-10	
Р,Х	Takashi YAZAWA et al., "Kotsuzui Yurai no Kan'yokei Kansaibo kara no Steroid Hormone Sansei Saibo no Sakusei", Folia endocrinologica Japonica, 2004 Nen 9 Gatsu, Vol.80, No.2, page 457, WS7-3		1-10	
P,X	Gondo S. et al., SF-1/Ad4BP transforms pr long-term cultured bone marrow cells into ACTH-responsive steroidogenic cells, Gene Cells, 2004 Dec, Vol.9, No.12, pages 1239 1247	- :s	1-10	

#### 国際調査報告

#### 発明の属する分野の分類(国際特許分類(IPC)) Int. Cl C12N5/06, C12N5/08, C12N5/10, C12N15/09, C12P33/00, A01K67/027 調査を行った分野 調査を行った最小限資料(国際特許分類(IPC)) Int. Ci' C12N5/06, C12N5/08, C12N5/10, C12N15/09, C12P33/00, A01K67/027 最小限資料以外の資料で調査を行った分野に含まれるもの 国際調査で使用した電子データベース(データベースの名称、調査に使用した用語) BIOSIS/WPI (DIALOG), MEDLINE (STN), JSTP1us/JST7580 (JOIS) 関連すると認められる文献 引用文献の・ 関連する 引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示。 カテゴリー\* 請求の範囲の番号 Crawford P. A. et al., Nuclear receptor steroidogenic factor 7/1-6, 8-10 X/Y 1 directs embryonic stem cells toward the steroidogenic line, age, Mol Cell Biol, 1997, Vol. 17, No. 7, pp. 3997-4006 梅澤明弘,特集 幹細胞の発生分化とその可塑性 骨髄間質細胞. Y 1-6, 8-10 分子細胞治療, 2001, Vol. 2, No. 1, pp. 17-24 大串始、間葉系幹細胞を用いた再生医療技術、バイオサイエンスと 1-6.8-10 インダストリー, 2002, Vol. 30, No. 5, pp. 318-319 × C欄の続きにも文献が列挙されている。 パテントファミリーに関する別紙を参照。 \* 引用文献のカテゴリー の日の後に公表された文献 「A」特に関連のある文献ではなく、一般的技術水準を示す 「T」国際出願日又は優先日後に公表された文献であって 出願と矛盾するものではなく、発明の原理又は理論 「E」国際出願日前の出願または特許であるが、国際出願日 の理解のために引用するもの 「X」特に関連のある文献であって、当該文献のみで発明 以後に公表されたもの の新規性又は進歩性がないと考えられるもの 「L」優先権主張に疑義を提起する文献又は他の文献の発行 日若しくは他の特別な理由を確立するために引用する 「Y」特に関連のある文献であって、当該文献と他の1以 文献(理由を付す) 上の文献との、当業者にとって自明である組合せに 「O」口頭による開示、使用、展示等に言及する文献 よって進歩性がないと考えられるもの 「P」国際出願日前で、かつ優先権の主張の基礎となる出願 「&」同一パテントファミリー文献 国際調査を完了した日 国際調査報告の発送日 04.03.2005 3, 2005 国際調査機関の名称及びあて先 特許庁審査官(権限のある職員) 4 B 2936 日本国特許庁(ISA/JP) 飯室 里美 郵便番号100-8915 東京都千代田区霞が関三丁目4番3号 電話番号 03-3581-1101 内線 3448

	(続き)	関連すると認められる文献	
	用文献の テゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
~	Y	梅澤明弘, 再生医療システムーその研究と進歩ー間葉系幹細胞による「臓器」再構築一新しい生体マイクロデバイスとしての骨髄間質細胞の可塑性を用いた細胞移植ー, Biotherapy, 2001, Vol. 15, No.2, pp. 119-125	1-6, 8-10
	PX	矢澤隆志他, 骨髄由来の間葉系幹細胞からのステロイドホルモン産 生細胞の作製, 日本内分泌学会雑誌, 2004年9月, Vol. 80, No. 2, p. 457, WS7-3	1–10
	<b>PX</b>	Gondo S. et al., SF-1/Ad4BP transforms primary long-term cultured bone marrow cells into ACTH-responsive steroidogenic cells, Genes Cells, 2004 Dec, Vol. 9, No. 12, pp. 1239-1247	1-10
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